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<110> ELI LILLY AND COMPANY

<130> 660950

<150> JP 10/047015

<151> 1998-2-27

&lt;160&gt; 19

<210> 1

**<211> 1733**

&lt;212&gt; DNA

<213> Hepatitis C virus JK-1 (NS5B)

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Ser Met Ser Tyr Thr Trp Thr Gly Ala Leu Ile Thr Pro Cys Ala Ala

1                      5                      10                      15

gag gag agc aag ctg ccc atc aat ccg ttg agc aac tct ttg ctg cgt 96

Glu Glu Ser Lys Leu Pro Ile Asn Pro Leu Ser Asn Ser Leu Leu Arg

**20                      25                      30**

cac cac aac atg gtc tac gcc aca aca tct cgc agc gca ggc cta cgg 144

His His Asn Met Val Tyr Ala Thr Thr Ser Arg Ser Ala Gly Leu Arg

**35                      40                      45**

cag aaa aag gtc acc ttt gac aga ctg cag gtc ccg gac gac cat tac 192

Gln Lys Lys Val Thr Phe Asp Arg Leu Gln Val Pro Asp Asp His Tyr

**50                      55                      60**

cgg gac gtg ctc aag gag atg aag gcg aag gcg tcc aca gtt aag gct 240

Arg Asp Val Leu Lys Glu Met Lys Ala Lys Ala Ser Thr Val Lys Ala	
65                      70                      75                      80	
aaa ctt cta tct gta gaa gaa gcc tgc aag ctg acg ccc cca cac tcg	288
Lys Leu Leu Ser Val Glu Glu Ala Cys Lys Leu Thr Pro Pro His Ser	
85                      90                      95	
gcc aga tcc aaa ttt ggc tat ggg gcg aag gac gtc cgg aac cta tcc	336
Ala Arg Ser Lys Phe Gly Tyr Gly Ala Lys Asp Val Arg Asn Leu Ser	
100                      105                      110	
agc aag gcc gtt aac cac atc cac tcc gtg tgg aag gac ttg ctg gaa	384
Ser Lys Ala Val Asn His Ile His Ser Val Trp Lys Asp Leu Leu Glu	
115                      120                      125	
gac act gaa aca cca att gac act acc atc atg gca aaa aat gag gtc	432
Asp Thr Glu Thr Pro Ile Asp Thr Thr Ile Met Ala Lys Asn Glu Val	
130                      135                      140	
ttc tgt gtt caa cca gag aaa gga ggc cgc aag cca gcc cgc ctt atc	480
Phe Cys Val Gln Pro Glu Lys Gly Gly Arg Lys Pro Ala Arg Leu Ile	
145                      150                      155                      160	
gta ttc cca gaa ctt ggg gtt cgt gtg tgc gag aaa atg gcc ctt tac	528
Val Phe Pro Glu Leu Gly Val Arg Val Cys Glu Lys Met Ala Leu Tyr	
165                      170                      175	
gac gtg gtc tcc act ctt cct cag gcc gtg atg ggc tcc tca tac gga	576
Asp Val Val Ser Thr Leu Pro Gln Ala Val Met Gly Ser Ser Tyr Gly	
180                      185                      190	
ttc cag tac tct cct ggg cag cgg gtc gag ttc ctg gtg aat gcc tgg	624
Phe Gln Tyr Ser Pro Gly Gln Arg Val Glu Phe Leu Val Asn Ala Trp	
195                      200                      205	
aaa tcg aag aaa aac cct atg ggc ttc gca tat tgc acc cgc tgt ttt	672

Lys	Ser	Lys	Lys	Asn	Pro	Met	Gly	Phe	Ala	Tyr	Cys	Thr	Arg	Cys	Phe		
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gac	tca	acg	gtc	act	gag	agt	gat	atc	cgt	gtt	gag	gag	tca	att	tac		720
Asp	Ser	Thr	Val	Thr	Glu	Ser	Asp	Ile	Arg	Val	Glu	Glu	Ser	Ile	Tyr		
225					230					235					240		
caa	tgt	tgt	gac	ttg	gcc	ccc	gag	gcc	aga	cag	gtc	ata	agg	tcg	ctc		768
Gln	Cys	Cys	Asp	Leu	Ala	Pro	Glu	Ala	Arg	Gln	Val	Ile	Arg	Ser	Leu		
				245					250					255			
acg	gag	cgg	ctt	tat	atc	ggg	ggc	ccc	ctg	act	aat	tca	aaa	ggg	cag		816
Thr	Glu	Arg	Leu	Tyr	Ile	Gly	Gly	Pro	Leu	Thr	Asn	Ser	Lys	Gly	Gln		
				260				265					270				
aac	tgc	ggt	tat	cgc	cgg	tgc	cgc	gcc	agc	ggt	gtg	ctg	acg	act	aac		864
Asn	Cys	Gly	Tyr	Arg	Arg	Cys	Arg	Ala	Ser	Gly	Val	Leu	Thr	Thr	Asn		
		275				280					285						
tgc	ggt	aat	acc	ctc	aca	tgt	tac	ttg	aag	gcc	tct	gca	gcc	tgt	cga		912
Cys	Gly	Asn	Thr	Leu	Thr	Cys	Tyr	Leu	Lys	Ala	Ser	Ala	Ala	Cys	Arg		
		290				295					300						
gct	gca	aag	ctc	cag	gac	tgc	acg	atg	ctc	gtg	tgc	gga	gac	gac	ctt		960
Ala	Ala	Lys	Leu	Gln	Asp	Cys	Thr	Met	Leu	Val	Cys	Gly	Asp	Asp	Leu		
305					310					315					320		
gtc	gtt	atc	tgt	gaa	agc	gcg	gga	acc	cag	gag	gac	gcg	gcg	agc	cta		1008
Val	Val	Ile	Cys	Glu	Ser	Ala	Gly	Thr	Gln	Glu	Asp	Ala	Ala	Ser	Leu		
				325					330					335			
cga	gtc	ttc	acg	gag	gct	atg	act	agg	tac	tct	gcc	ccc	ccc	ggg	gac		1056
Arg	Val	Phe	Thr	Glu	Ala	Met	Thr	Arg	Tyr	Ser	Ala	Pro	Pro	Gly	Asp		
		340						335						350			
ccg	ccc	caa	cca	gaa	tac	gac	ttg	gag	tta	ata	aca	tca	tgc	tcc	tcc		1104

Pro	Pro	Gln	Pro	Glu	Tyr	Asp	Leu	Glu	Leu	Ile	Thr	Ser	Cys	Ser	Ser		
355						360						365					
aac	gtg	tcg	gtc	gcg	cac	gac	gca	tct	ggc	aag	cgg	gtg	tac	tac	ctc	1152	
Asn	Val	Ser	Val	Ala	His	Asp	Ala	Ser	Gly	Lys	Arg	Val	Tyr	Tyr	Leu		
370						375						380					
act	cgc	gac	ccc	acc	acc	ccc	ctc	gcg	agg	gca	gcg	tgg	gaa	aca	gca	1200	
Thr	Arg	Asp	Pro	Thr	Thr	Pro	Leu	Ala	Arg	Ala	Ala	Trp	Glu	Thr	Ala		
385						390						395			400		
aga	cac	act	cca	gta	aac	tcc	tgg	cta	ggc	aac	atc	atc	atg	tac	gcg	1248	
Arg	His	Thr	Pro	Val	Asn	Ser	Trp	Leu	Gly	Asn	Ile	Ile	Met	Tyr	Ala		
			405						410						415		
ccc	acc	ctg	tgg	gca	agg	atg	att	ctg	atg	acc	cac	ttc	ttc	tcc	atc	1296	
Pro	Thr	Leu	Trp	Ala	Arg	Met	Ile	Leu	Met	Thr	His	Phe	Phe	Ser	Ile		
			420						425						430		
ctt	cta	gct	cag	gag	caa	ctt	gaa	aaa	gcc	ctg	ggc	tgt	cag	atc	tac	1344	
Leu	Leu	Ala	Gln	Glu	Gln	Leu	Glu	Lys	Ala	Leu	Gly	Cys	Gln	Ile	Tyr		
435						440						445					
ggg	gcc	act	tac	ttc	att	gaa	cca	ctt	gac	cta	cct	cag	atc	att	cag	1392	
Gly	Ala	Thr	Tyr	Phe	Ile	Glu	Pro	Leu	Asp	Leu	Pro	Gln	Ile	Ile	Gln		
450						455						460					
cga	ctc	cac	ggc	ctt	agc	gca	ttt	tca	ctc	cac	agt	tac	tct	cca	ggc	1440	
Arg	Leu	His	Gly	Leu	Ser	Ala	Phe	Ser	Leu	His	Ser	Tyr	Ser	Pro	Gly		
465						470						475			480		
gaa	atc	aat	agg	gtg	gct	tca	tgc	ctc	agg	aaa	ctt	ggg	gta	cca	ccc	1488	
Glu	Ile	Asn	Arg	Val	Ala	Ser	Cys	Leu	Arg	Lys	Leu	Gly	Val	Pro	Pro		
			485						490						495		
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<212> PRT  
<213> Hepatitis C virus JK-1 (NS5B)  
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His His Asn Met Val Tyr Ala Thr Thr Ser Arg Ser Ala Gly Leu Arg

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Gln Lys Lys Val Thr Phe Asp Arg Leu Gln Val Pro Asp Asp His Tyr		
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Arg Asp Val Leu Lys Glu Met Lys Ala Lys Ala Ser Thr Val Lys Ala		
65	70	75
Lys Leu Leu Ser Val Glu Glu Ala Cys Lys Leu Thr Pro Pro His Ser		
85	90	95
Ala Arg Ser Lys Phe Gly Tyr Gly Ala Lys Asp Val Arg Asn Leu Ser		
100	105	110
Ser Lys Ala Val Asn His Ile His Ser Val Trp Lys Asp Leu Leu Glu		
115	120	125
Asp Thr Glu Thr Pro Ile Asp Thr Thr Ile Met Ala Lys Asn Glu Val		
130	135	140
Phe Cys Val Gln Pro Glu Lys Gly Gly Arg Lys Pro Ala Arg Leu Ile		
145	150	155
Val Phe Pro Glu Leu Gly Val Arg Val Cys Glu Lys Met Ala Leu Tyr		
165	170	175
Asp Val Val Ser Thr Leu Pro Gln Ala Val Met Gly Ser Ser Tyr Gly		
180	185	190
Phe Gln Tyr Ser Pro Gly Gln Arg Val Glu Phe Leu Val Asn Ala Trp		
195	200	205
Lys Ser Lys Lys Asn Pro Met Gly Phe Ala Tyr Cys Thr Arg Cys Phe		
210	215	220
Asp Ser Thr Val Thr Glu Ser Asp Ile Arg Val Glu Glu Ser Ile Tyr		
225	230	235
Gln Cys Cys Asp Leu Ala Pro Glu Ala Arg Gln Val Ile Arg Ser Leu		
245	250	255

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Asn	Cys	Gly	Tyr	Arg	Arg	Cys	Arg	Ala	Ser	Gly	Val	Leu	Thr	Thr	Asn
275				280				285							
Cys	Gly	Asn	Thr	Leu	Thr	Cys	Tyr	Leu	Lys	Ala	Ser	Ala	Ala	Cys	Arg
290			295			300									
Ala	Ala	Lys	Leu	Gln	Asp	Cys	Thr	Met	Leu	Val	Cys	Gly	Asp	Asp	Leu
305		310				315				320					
Val	Val	Ile	Cys	Glu	Ser	Ala	Gly	Thr	Gln	Glu	Asp	Ala	Ala	Ser	Leu
325					330					335					
Arg	Val	Phe	Thr	Glu	Ala	Met	Thr	Arg	Tyr	Ser	Ala	Pro	Pro	Gly	Asp
340				335				350							
Pro	Pro	Gln	Pro	Glu	Tyr	Asp	Leu	Glu	Leu	Ile	Thr	Ser	Cys	Ser	Ser
355			360			365									
Asn	Val	Ser	Val	Ala	His	Asp	Ala	Ser	Gly	Lys	Arg	Val	Tyr	Tyr	Leu
370		375				380									
Thr	Arg	Asp	Pro	Thr	Thr	Pro	Leu	Ala	Arg	Ala	Ala	Trp	Glu	Thr	Ala
385		390				395				400					
Arg	His	Thr	Pro	Val	Asn	Ser	Trp	Leu	Gly	Asn	Ile	Ile	Met	Tyr	Ala
405					410					415					
Pro	Thr	Leu	Trp	Ala	Arg	Met	Ile	Leu	Met	Thr	His	Phe	Phe	Ser	Ile
420			425			430									
Leu	Leu	Ala	Gln	Glu	Gln	Leu	Glu	Lys	Ala	Leu	Gly	Cys	Gln	Ile	Tyr
435		440			445										
Gly	Ala	Thr	Tyr	Phe	Ile	Glu	Pro	Leu	Asp	Leu	Pro	Gln	Ile	Ile	Gln
450		455				460									
Arg	Leu	His	Gly	Leu	Ser	Ala	Phe	Ser	Leu	His	Ser	Tyr	Ser	Pro	Gly



tcg gat ctg gtt ccg cgt gga tcg tgc acg aat tta cgt cgt gca tct	48
Ser Asp Leu Val Pro Arg Gly Ser Cys Thr Asn Leu Arg Arg Ala Ser	
1 5 10 15	
gtt ctg aat tcg agc tcc ggt acc ccc ggg gtc gac gga tcc caa ttc	96
Val Leu Asn Ser Ser Ser Gly Thr Pro Gly Val Asp Gly Ser Gln Phe	
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atc gtg act gac tga	111

111

35

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## <212> DNA

### <213> Artificial Sequence

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37

<210> 5

&lt;211&gt; 37

<212> DNA

### <213> Artificial Sequence

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37.

**<210> 6**

&lt;211&gt; 33

## <212> DNA

### <213> Artificial Sequence

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33

**<210> 7**

&lt;211&gt; 32

## <212> DNA

### <213> Artificial Sequence

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32

<210> 8

<211> 32

<212> DNA

<213> Artificial Sequence

<400> 8

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60

tttttcttt ttttttttt ct

82

<210> 12

<211> 80

<212> DNA

<400> 12

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&lt;210&gt; 13

&lt;211&gt; 80

<212> DNA

### ⟨213⟩ Artificial Sequence

<400> 13

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&lt;210&gt; 14

&lt;211&gt; 67

&lt;212&gt; DNA

### 〈213〉 Artificial Sequence

<400> 14

ggctcac 67

<210> 15

<211> 67

## <212> DNA

### <213> Artificial Sequence

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accacat 67

&lt;210&gt; 16

&lt;211&gt; 34

<212> DNA

<213> Artificial Sequence

<400> 16

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34

<210> 17

<211> 31

<212> DNA

<213> Artificial Sequence

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aaggatccga attcttgtag agctcgtcca t

31

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<212> DNA

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<400> 18

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<210> 19

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